AMENDMENTS TO THE CLAIMS

Claims 1-30 are pending in the instant application. Claims 1, 3-4, 8-21, 23-24, and 28-30 have been amended. The Applicant requests reconsideration of the claims in view of the following remarks.

Listing of claims:

1. (Currently Amended) A method for facilitating communication in a mesh network using a plurality of <u>wireless</u> access points, the method comprising:

coupling a first <u>wireless</u> access point located in a first cell of the mesh network to at least a second <u>wireless</u> access point located in a second cell of the mesh network;

providing service initially to at least one of a plurality of access devices in the mesh network by said at least a first <u>wireless</u> access point located in said first cell, <u>wherein said at least one of said plurality of access devices maintains a handoff candidate list; and</u>

servicing within the mesh network, said at least one of a plurality of access devices by said at least a second <u>wireless</u> access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold, <u>wherein said second wireless access point is selected from said handoff candidate list.</u>

- 2. (Original) The method according to claim 1, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.
- 3. (Currently Amended) The method according to claim 2, comprising transmitting a first signal from a first beamforming antenna coupled to said first <u>wireless</u> access point, to said at least a second access point.
- 4. (Currently Amended) The method according to claim 3, comprising transmitting a second signal from a second beamforming antenna coupled to said at least a second wireless access point, to said first wireless access point.
- 5. (Original) The method according to claim 4, wherein a path for facilitating said transmitting said first signal between said first beamforming antenna and said second beamforming antenna is an uplink channel.
- 6. (Original) The method according to claim 5, wherein a path for facilitating said transmitting of said second signal between said second beamforming antenna and said first beamforming antenna is a downlink channel.
- 7. (Previously Presented) The method according to claim 6, wherein said uplink channel and said downlink channel comprise a backhaul channel.

- 8. (Currently Amended) The method according to claim 1, further comprising coupling said first <u>wireless</u> access point located in said first cell to at least a third <u>wireless</u> access point located in said first cell.
- 9. (Currently Amended) The method according to claim 8, comprising servicing said at least one of a plurality of access devices by said at least a third <u>wireless</u> access point located in said first cell, whenever a signal for said at least one of a plurality of access devices falls below said specified threshold.
- 10. (Currently Amended) The method according to claim 9, wherein at least one of said first <u>wireless</u> access point and said at least one of a plurality of access devices determines when said signal for said at least one of a plurality of access devices falls below said specified threshold.
- 11. (Currently Amended) A machine-readable storage computer-readable medium, having stored thereon a computer program having at least one code section for facilitating communication in a mesh network using a plurality of wireless access points, the at least one code section being executable by a machine computer for causing the machine computer to perform the steps comprising:

coupling a first <u>wireless</u> access point located in a first cell of the mesh network to at least a second wireless access point located in a second cell of the mesh network;

providing service initially to at least one of a plurality of access devices in the mesh network by said at least a first <u>wireless</u> access point located in said first cell, <u>wherein said at least one of said plurality of access devices maintains a handoff candidate list;</u> and

servicing within the mesh network, said at least one of a plurality of access devices by said at least a second <u>wireless</u> access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold, <u>wherein said second wireless access point is selected from said handoff candidate list.</u>

- 12. (Currently Amended) The machine-readable storage computer-readable medium according to claim 11, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.
- 13. (Currently Amended) The <u>machine-readable storage computer-readable</u> <u>medium</u> according to claim 12, comprising code for transmitting a first signal from a first beamforming antenna coupled to said first <u>wireless</u> access point, to said at least a second wireless access point.

- 14. (Currently Amended) The <u>machine-readable storage_computer-readable</u> <u>medium</u> according to claim 13, comprising code for transmitting a second signal from a second beamforming antenna coupled to said at least a second <u>wireless</u> access point, to said first <u>wireless</u> access point.
- 15. (Currently Amended) The machine-readable storage computer-readable medium according to claim 14, wherein a path for facilitating said transmitting of said first signal between said first beamforming antenna and said second beamforming antenna is an uplink channel.
- 16. (Currently Amended) The machine-readable storage computer-readable medium according to claim 15, wherein a path for facilitating said transmitting of said second signal between said second beamforming antenna and said first beamforming antenna is a downlink channel.
- 17. (Currently Amended) The machine-readable storage computer-readable medium according to claim 16, wherein said uplink channel and said downlink channel comprise a backhaul channel.
- 18. (Currently Amended) The <u>machine-readable storage computer-readable</u> <u>medium</u> according to claim 11, comprising code for connecting said first <u>wireless</u> access

point located in said first cell to at least a third <u>wireless</u> access point located in said first

cell.

19. (Currently Amended) The machine-readable storage computer-readable

medium according to claim 18, comprising code for servicing said at least one of a

plurality of access devices by said at least a third wireless access point located in said

first cell whenever a signal for said at least one of a plurality of access devices falls

below said specified threshold.

20. (Currently Amended) The machine-readable storage computer-readable

medium according to claim 19, wherein at least one of said first wireless access point

and said at least one of a plurality of access devices comprises code for determining

when said signal for said at least one of a plurality of access devices falls below said

specified threshold.

21. (Currently Amended) A system for facilitating communication in a mesh

network using a plurality of wireless access points, the system comprising:

at least one circuitry that couples a first wireless access point located in a first

cell of the mesh network to at least a second wireless access point located in a second

cell of the mesh network;

said at least one circuitry provides service initially to at least one of a plurality of access devices in the mesh network via said at least a first <u>wireless</u> access point located in said first cell, <u>wherein said at least one of said plurality of access devices</u> <u>maintains a handoff candidate list</u>; and

said at least one circuitry <u>facilitates</u> servic[[es]]<u>ing</u> within the mesh network, <u>of</u> said at least one of a plurality of access devices by said at least a second <u>wireless</u> access point located in said second cell, whenever a signal for said at least one of a plurality of access devices falls below a specified threshold, <u>wherein said second</u> wireless access point is selected from said handoff candidate list.

- 22. (Original) The system according to claim 21, wherein said at least a second cell is a neighboring cell located adjacent to said first cell.
- 23. (Currently Amended) The system according to claim 22, comprising a first beamforming antenna coupled to said first <u>wireless</u> access point for transmitting a first signal from said first <u>wireless</u> access point to said at least a second <u>wireless</u> access point.
- 24. (Currently Amended) The system according to claim 23, comprising a second beamforming antenna coupled to said at least a second wireless access point for

transmitting a second signal from said at least a second <u>wireless</u> access point to said first wireless access point.

- 25. (Original) The system according to claim 24, wherein a path for facilitating said transmitting between said first beamforming antenna and said second beamforming antenna is an uplink channel.
- 26. (Original) The system according to claim 25, wherein a path for facilitating said transmitting between said second beamforming antenna and said first beamforming antenna is a downlink channel.
- 27. (Previously Presented) The system according to claim 26, wherein said uplink channel and said downlink channel comprise a backhaul channel.
- 28. (Currently Amended) The system according to claim 21, wherein said at least one circuitry couples said first <u>wireless</u> access point located in said first cell to at least a third <u>wireless</u> access point located in said first cell.
- 29. (Currently Amended) The system according to claim 28, wherein said at least one circuitry services said at least one of a plurality of access devices via said at least a

third <u>wireless</u> access point located in said first cell, whenever a signal for said at least one of a plurality of access devices falls below said specified threshold.

30. (Currently Amended) The system according to claim 29, wherein at least one of said first <u>wireless</u> access point and said at least one of a plurality of access devices determines when said signal for said at least one of a plurality of access devices falls below said specified threshold.